

A seismic streamer heading  
sensor for only \$799.

Yes, **\$799.**  
(No, that's not a typo.)



### Introducing the new SeaTRAX heading sensor.

We heard you. Those fluxgate heading sensors are awfully expensive, often making their widespread use unfeasible. But PNI Sensor's new SeaTRAX is a new magneto-inductive heading sensor that meets your stringent streamer specs — at an amazing price of **\$799** (even less if you buy in large quantities).

Unlike heading sensors costing thousands more, SeaTRAX is backed by PNI Sensor Corporation's decades of heading sensor design and manufacturing experience — making it a dramatically more cost-effective solution from a **proven source** for on-time delivery to meet your seismic streamer production needs.



## Seismic streamer heading module prices are heading down.

For seismic streamer makers who find current heading sensor offerings too expensive, PNI Sensor's SeaTRAX is a new magneto-inductive heading sensor that provides reliable heading data at a practical cost.

Unlike heading sensors costing thousands more, PNI Sensor's SeaTRAX meets seismic streamer specifications and is designed and made by PNI Sensor Corporation, who has years of heading sensor manufacturing experience. PNI is a proven source for on-time delivery to meet your production needs.

### Features:

- High Accuracy
- Multiple field calibration options
- Low power consumption
- RS232 interface
- Long, slim form factor

## Specifications<sup>1</sup>

|                            |                                             |                                       |                                            |
|----------------------------|---------------------------------------------|---------------------------------------|--------------------------------------------|
| Performance Specifications | Heading                                     | $\leq 65^\circ$ of pitch <sup>2</sup> | <0.3° rms                                  |
|                            |                                             | Resolution                            | 0.1°                                       |
|                            |                                             | Repeatability                         | 0.05 rms                                   |
|                            | Tilt                                        | Range                                 | $\pm 90^\circ$ pitch, $\pm 180^\circ$ roll |
|                            |                                             | Accuracy w/ $\leq 65^\circ$ of pitch  | 0.2° rms                                   |
|                            |                                             | Resolution                            | 0.01°                                      |
|                            |                                             | Repeatability                         | 0.05° rms                                  |
| I/O Characteristics        | Maximum Dip Angle <sup>3</sup>              |                                       | 85°                                        |
|                            | Communication Interface                     |                                       | RS232                                      |
| Mechanical Characteristics | Dimensions (l x w x h) - with Z-Axis Shield |                                       | 70 x 11.8 x 10.3 mm                        |
|                            | - without Z-Axis Shield                     |                                       | 70 x 11.8 x 9.8 mm                         |
| Power Requirements         | Weight                                      |                                       | 4.3 gm                                     |
|                            | Supply Voltage                              |                                       | 3.8 - 9 VDC                                |
| Temperature Range          | Current Draw @ 8Hz sample rate              |                                       | 17 mA                                      |
|                            | Operation                                   |                                       | -40°C to +85°C                             |
| Temperature Range          | Storage                                     |                                       | -40°C to +85°C                             |

1. Product specifications are preliminary and subject to change

2. After using full-sphere calibration; see user manual for accuracy after using other calibrations

3. Performance at maximum dip angle will be degraded.

**SeaTRAX**  
HEADING MODULE



**3-AXIS**



**HARD AND SOFT IRON CORRECTION**



**INTEGRATED PROCESSOR**



**LOW POWER**

**PNI MAGNETO-INDUCTIVE ORIENTATION SENSORS** can tell you if something is up or down, sideways or facing east. They can tell you where in space your handheld is, or track movement across a screen or down a ravine. They're reliably accurate underwater, in space, in a car, and at extreme temperatures — all with pin-point accuracy, and using far less power than other technologies.

PNI uses the existing power of the earth's magnetic field to measure position, orientation and heading, applying its patented Magneto-Inductive technology in each of its sensors and modules.

Many of today's leading companies are using PNI technology in their marquee products and across a wide spectrum of applications, including compassing, surveying equipment, sonar, robotics, vehicles and oceanography equipment.



For ordering information and most current specifications, please visit [www.pnicorp.com](http://www.pnicorp.com)

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